

Algebra 2

Unit 4: WS #5

Name _____ Date _____

4.1 IDENTIFYING AND CLASSIFYING POLYNOMIALS

Write each polynomial in standard form.

1. $4x + 9x^3 - 17 \rightarrow$
2. $8x^2 + 2x^4 - 11 + 6x \rightarrow$
3. $7x^4 - 9x^7 - 13x - 5x^3 \rightarrow$
4. $\frac{3}{4}x^2 + \frac{5}{8}x^5 - \frac{7}{9}x \rightarrow$
5. $\frac{1}{2} + \frac{3}{7}x^4 - \frac{2}{5}x^2 + \frac{8}{9}x \rightarrow$

Determine whether each expression is a polynomial. If so, classify the polynomial by degree and by number of terms.

6. $9x^2 + 4x - 8$		
7. $4x^{-3} + 7x^{-2} + 5$		
8. $14ab^2c^2$		
9. $2\sqrt{x} + 5$		
10. $\frac{4}{5}x^3 + \frac{2}{3}x$		
11. $7^{2x} + 4^x - 11$		
12. $\frac{2}{x^2} + \frac{5}{x} - \frac{8}{9}$		